

STN

=> s 150 and py<2003
L51 5 L50 AND PY<2003

=> d 1-5 ibib kwic

L51 ANSWER 1 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2002:199103 USPATFULL
TITLE: Methods of reducing papillomavirus infection using
immunomodulatory polynucleotide sequences
INVENTOR(S): Nest, Gary Van, Martinez, CA, UNITED STATES
Eiden, Joseph J., JR., Danville, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002107212	A1	20020808	<--
APPLICATION INFO.:	US 2001-802445	A1	20010309	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-188265P	20000310 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Karen R. Zachow, Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA, 94304-1018	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	1604	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

PI US 2002107212 A1 20020808 <--

DETD [0122] ISS polynucleotide formulations may contain additional components such as salts, buffers, bulking agents, osmolytes, antioxidants, detergents, surfactants and other pharmaceutically-acceptable excipients as are known in the art. Generally, liquid ISS polynucleotide formulations made in. . .

DETD [0130] Nasopharyngeal and pulmonary routes of administration include, but are not limited to, intranasal, inhalation, transbronchial and transalveolar routes. The ISS-containing polynucleotide may thus be administered by inhalation of aerosols, atomized liquids or powders. Devices suitable for administration by inhalation of ISS-containing compositions include, but are not limited to, nebulizers, atomizers, vaporizers, and metered-dose inhalers. Nebulizers, atomizers, vaporizers and metered-dose inhalers filled with or employing reservoirs containing formulations comprising the ISS-containing polynucleotide(s) are among a variety of devices suitable for use in inhalation delivery of the ISS-containing polynucleotide(s). Other methods of delivering to respiratory mucosa include delivery of liquid formulations, such as by. . .

DETD . . . administration may be by bolus or infusion administration. For SC administration, administration may be by bolus, infusion or by implantable device, such as an implantable minipump (e.g., osmotic or mechanical minipump) or slow release implant. The ISS polynucleotide(s) may also be delivered in a slow release formulation adapted for IV, IP, IM, ID or SC administration. Administration by inhalation is preferably accomplished in discrete doses (e.g., via a metered dose inhaler), although delivery similar to an infusion may be accomplished through use of a nebulizer. Administration via the transdermal and transmucosal. . .

DETD . . . in an ointment for topical formulation in appropriate packaging. Also contemplated are packages for use in combination with a specific device, such as an inhaler, nasal administration device (e.g., an atomizer), transdermal administration device, or an infusion device such as a minipump.

L51 ANSWER 2 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2002:186102 USPATFULL
TITLE: Compounds and methods for the treatment of airway diseases and for the delivery of airway drugs
INVENTOR(S): Boucher, Richard C., JR., Chapel Hill, NC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002099023	A1	20020725	<--
APPLICATION INFO.:	US 2002-87355	A1	20020301	(10)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-465429, filed on 21 Dec 1999, PENDING			

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-137991P	19990607 (60)
	US 1998-113785P	19981222 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MYERS BIGEL SIBLEY & SAJOVEC, PO BOX 37428, RALEIGH, NC, 27627	
NUMBER OF CLAIMS:	30	
EXEMPLARY CLAIM:	1	
LINE COUNT:	627	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

PI US 2002099023 A1 20020725 <--

AB . . . obstructive airway diseases are treated by administering an osmotically active compound such as a salt, sugar, sugar alcohol, or organic osmolyte to the afflicted airway surface. The compound may be administered as a liquid or dry powder aerosol formulation. Diseases that. . .

SUMM . . . a non-absorbable, osmotically active compound (hereinafter referred to as an "active compound") such as a salt, sugar, sugar alcohol, organic osmolyte, or other osmotically active compound to an airway surface of the subject in an amount effective to increase the volume. . .

DETD [0018] Active compounds of the present invention are molecules or compounds that are osmotically active (i.e., are "osmolytes"). "Osmotically active" compounds of the present invention are membrane-impermeable (i.e., essentially non-absorbable) on the airway or pulmonary epithelial surface. The. . . the bronchi and bronchioles, alveolar surfaces, and nasal and sinus surfaces. Active compounds of the present invention may be ionic osmolytes (i.e., salts), or may be non-ionic osmolytes (i.e., sugars, sugar alcohols, and organic osmolytes). It is specifically intended that both racemic forms of the active compounds that are racemic in nature are included in. . .

DETD [0019] Active compounds useful in the present invention that are ionic osmolytes include any salt consisting of a pharmaceutically acceptable anion and a pharmaceutically acceptable cation. Preferably, either (or both) of the. . .

DETD [0023] Active compounds of the present invention also include non-ionic

osmolytes such as sugars, sugar-alcohols, and organic osmolytes. Sugars and sugar-alcohols useful in the practice of the present invention include but are not limited to 3-carbon sugars (e.g., . . . reduced forms of sugar/sugar alcohols (e.g., dulcitol, arabitol) are accordingly active compounds of the present invention. As with the ionic osmolytes of the present invention, as between the dextrorotatory (D) form and the levorotatory (L) form of an active compound of.

DETD [0024] Active compounds of the present invention additionally include the family of non-ionic osmolytes termed "organic osmolytes." The term "organic osmolytes" is generally used to refer to molecules used to control intracellular osmolality in the kidney. See e.g., J. S. Handler. . . the inventor does not wish to be bound to any particular theory of the invention, it appears that these organic osmolytes are useful in controlling extracellular volume on the airway/pulmonary surface. Organic osmolytes useful as active compounds in the present invention include but are not limited to three major classes of compounds: polyols (polyhydric alcohols), methylamines, and amino acids. The polyol organic osmolytes considered useful in the practice of Tilis invention include, but are not limited to, inositol, myo-inositol, and sorbitol. The methylamine organic osmolytes useful in the practice of the invention include, but are not limited to, choline, betaine, carnitine (L-, D- and DL forms), phosphorylcholine, lyso-phosphorylcholine, glycerophosphorylcholine, creatine, and creatine phosphate. The amino acid organic osmolytes of the invention include, but are not limited to, the D- and L forms of glycine, alanine, glutamine, glutamate, aspartate, proline and taurine. Additional osmolytes useful in the practice of the invention include tihulose and sarcosine. Mammalian organic osmolytes are preferred, with human organic osmolytes being most preferred. However, certain organic osmolytes are of bacterial, yeast, and marine animal origin, and these compounds are also useful active compounds within the scope of.

DETD [0025] Under certain circumstances, an osmolyte precursor may be administered to the subject; accordingly, these compounds are also useful in the practice of the invention. The term "osmolyte precursor" as used herein refers to a compound which is converted into an osmolyte by a metabolic step, either catabolic or anabolic. The osmolyte precursors of this invention include, but are not limited to, glucose, glucose polymers, glycerol, choline, phosphatidylcholine, lyso-phosphatidylcholine and inorganic phosphates, which are precursors of polyols and methylamines. Precursors of amino acid osmolytes within the scope of this invention include proteins, peptides, and polyamino acids, which are hydrolyzed to yield osmolyte amino acids, and metabolic precursors which can be converted into osmolyte amino acids by a metabolic step such as transamination. For example, a precursor of the amino acid glutamine is poly-L-glutamine, . . .

DETD [0026] Also intended within the scope of this invention are chemically modified osmolytes or osmolyte precursors. Such chemical modifications involve linking to the osmolyte (or precursor) an additional chemical group which alters or enhances the effect of the osmolyte or osmolyte precursor (e.g., inhibits degradation of the osmolyte molecule). Such chemical modifications have been utilized with drugs or prodrugs and are known in the art. (See, for example, . . .

DETD . . . gelatin or plastic, which are either pierced or opened in situ and the powder delivered by air drawn through the device upon inhalation or by means of a manually-operated pump. The powder

employed in the insufflator consists either solely of the active ingredient. . . comprises from 0.1 to 100% w/w of the formulation. A second type of illustrative aerosol generator comprises a metered dose inhaler. Metered dose inhalers are pressurized aerosol dispensers, typically containing a suspension or solution formulation of the active ingredient in a liquified propellant. During use these devices discharge the formulation through a valve adapted to deliver a metered volume, typically from 10 to 150 µl, to produce. .

CLM What is claimed is:

2. A method according to claim 1, wherein the osmotically active compound is an ionic osmolyte.
3. A method according to claim 2, wherein the ionic osmolyte is a salt.
4. A method according to claim 1, wherein the osmotically active compound is a non-ionic osmolyte.
5. A method according to claim 4, wherein the non-ionic osmolyte is a sugar.
6. A method according to claim 4, wherein the non-ionic osmolyte is a sugar alcohol.
7. A method according to claim 4, wherein the non-ionic osmolyte is an organic osmolyte.
9. A method according to claim 4, wherein the non-ionic osmolyte is selected from the group consisting of glycerol, dihydroxyacetone erythrose, threose, and erythrulose, ribose, arabinose, xylose, lyxose, psicose, fructose, sorbose, . . .
10. A method according to claim 7, wherein the organic osmolyte is a polyol compound.
11. A method according to claim 7, wherein the organic osmolyte is a methylamine compound.
12. A method according to claim 7, wherein the organic osmolyte is an amino acid.
13. A method according to claim 7, wherein said organic osmolyte is selected from the group consisting of betaine, taurine, inositol, myoinositol, glycerophosphorylcholine, and tihulose.

L51 ANSWER 3 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2002:185291 USPATFULL

TITLE: Methods of suppressing hepatitis virus infection using immunomodulatory polynucleotide sequences

INVENTOR(S): Van Nest, Gary, Martinez, CA, UNITED STATES
Eiden, Joseph J., JR., Danville, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002098199	A1	20020725	<--
APPLICATION INFO.:	US 2001-802370	A1	20010309	(9)

NUMBER	DATE
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PRIORITY INFORMATION: US 2000-188301P 20000310 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Karen R. Zachow, Ph.D., Morrison & Foerster LLP, 755
Page Mill Road, Palo Alto, CA, 94304-1018
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 1602

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

PI US 2002098199 A1 20020725

DETD [0110] ISS polynucleotide formulations may contain additional components
such as salts, buffers, bulking agents, osmolytes,
antioxidants, detergents, surfactants and other pharmaceutically-
acceptable excipients as are known in the art. Generally, liquid ISS
polynucleotide formulations made in.

DETD [0116] Nasopharyngeal and pulmonary routes of administration include,
but are not limited to, intranasal, inhalation, transbronchial
and transalveolar routes. The ISS-containing polynucleotide may thus be
administered by inhalation of aerosols, atomized liquids or
powders. Devices suitable for administration by
inhalation of ISS-containing compositions include, but are not
limited to, nebulizers, atomizers, vaporizers, and metered-dose
inhalers. Nebulizers, atomizers, vaporizers and metered-dose
inhalers filled with or employing reservoirs containing
formulations comprising the ISS-containing polynucleotide(s) are among a
variety of devices suitable for use in inhalation
delivery of the ISS-containing polynucleotide(s). Other methods of
delivering to respiratory mucosa include delivery of liquid
formulations, such as by.

DETD . . . administration may be by bolus or infusion administration. For
SC administration, administration may be by bolus, infusion or by
implantable device, such as an implantable minipump (e.g.,
osmotic or mechanical minipump) or slow release implant. The ISS
polynucleotide(s) may also be delivered in a slow release formulation
adapted for IV, IP, IM, ID or SC administration. Administration by
inhalation is preferably accomplished in discrete doses (e.g.,
via a metered dose inhaler), although delivery similar to an
infusion may be accomplished through use of a nebulizer. Administration
via the transdermal and transmucosal.

DETD . . . supplied with a liquid formulation of the ISS-containing
polynucleotide. Also contemplated are packages for use in combination
with a specific device, such as an inhaler, nasal
administration device (e.g., an atomizer) or an infusion
device such as a minipump.

L51 ANSWER 4 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2002:48592 USPATFULL

TITLE: Methods of preventing and treating viral infections
using immunomodulatory polynucleotide sequences

INVENTOR(S): Nest, Gary Van, Martinez, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002028784	A1	20020307	<--
APPLICATION INFO.:	US 2001-802685	A1	20010309 (9)	

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-188302P	20000310 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Karen R. Zachow, Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA, 94304-1018
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Page(s)
LINE COUNT: 2175

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

PI US 2002028784 A1 20020307 <--

DETD [0133] ISS polynucleotide formulations may contain additional components such as salts, buffers, bulking agents, osmolytes, antioxidants, detergents, surfactants and other pharmaceutically-acceptable excipients as are known in the art. Generally, liquid ISS polynucleotide formulations made in. . .

DETD [0141] Nasopharyngeal and pulmonary routes of administration include, but are not limited to, intranasal, inhalation, transbronchial and transalveolar routes. The ISS-containing polynucleotide may thus be administered by inhalation of aerosols, atomized liquids or powders. Devices suitable for administration by inhalation of ISS-containing compositions include, but are not limited to, nebulizers, atomizers, vaporizers, and metered-dose inhalers. Nebulizers, atomizers, vaporizers and metered-dose inhalers filled with or employing reservoirs containing formulations comprising the ISS-containing polynucleotide(s) are among a variety of devices suitable for use in inhalation delivery of the ISS-containing polynucleotide(s). Other methods of delivering to respiratory mucosa include delivery of liquid formulations, such as by. . .

DETD . . . administration may be by bolus or infusion administration. For SC administration, administration may be by bolus, infusion, or by implantable device, such as an implantable minipump (e.g., osmotic or mechanical minipump) or slow release implant. The ISS polynucleotide(s) may also be delivered in a slow release formulation adapted for IV, IP, IM, ID or SC administration. Administration by inhalation is preferably accomplished in discrete doses (e.g., via a metered dose inhaler), although delivery similar to an infusion may be accomplished through use of a nebulizer. Administration via the transdermal and transmucosal. . .

DETD . . . in an ointment for topical formulation in appropriate packaging. Also contemplated are packages for use in combination with a specific device, such as an inhaler, nasal administration device (e.g., an atomizer) or an infusion device such as a minipump.

L51 ANSWER 5 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2001:218477 USPATFULL

TITLE: Methods of preventing and treating respiratory viral infection using immunomodulatory polynucleotide

INVENTOR(S): Van Nest, Gary, Martinez, CA, United States

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2001046967	A1	20011129	<--
APPLICATION INFO.:	US 2001-802686	A1	20010309 (9)	

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-188583P	20000310 (60)
DOCUMENT TYPE:	Utility	

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MORRISON & FOERSTER LLP, 755 PAGE MILL RD, PALO ALTO,
CA, 94304-1018
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 1527

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

PI US 2001046967 A1 20011129 <--

DETD [0100] ISS polynucleotide formulations may contain additional components such as salts, buffers, bulking agents, osmolytes, antioxidants, detergents, surfactants and other pharmaceutically-acceptable excipients as are known in the art. Generally, liquid ISS polynucleotide formulations made in.

DETD . . . mucosa (such as nasal passages or lung). Nasopharyngeal and pulmonary routes of administration include, but are not limited to, intranasal, inhalation, transbronchial and transalveolar routes. The ISS-containing polynucleotide may thus be administered by inhalation of aerosols, atomized liquids or powders. Devices suitable for administration by inhalation of ISS-containing compositions include, but are not limited to, nebulizers, atomizers, vaporizers, and metered-dose inhalers. Nebulizers, atomizers, vaporizers and metered-dose inhalers filled with or employing reservoirs containing formulations comprising the ISS-containing polynucleotide(s) are among a variety of devices suitable for use in inhalation delivery of the ISS-containing polynucleotide(s). Other methods of delivering to respiratory mucosa include delivery of liquid formulations, such as by.

DETD . . . administration may be by bolus or infusion administration. For SC administration, administration may be by bolus, infusion or by implantable device, such as an implantable minipump (e.g., osmotic or mechanical minipump) or slow release implant. The ISS polynucleotide(s) may also be delivered in a slow release formulation adapted for IV, IP, IM, ID or SC administration. Administration by inhalation is preferably accomplished in discrete doses (e.g., via a metered dose inhaler), although delivery similar to an infusion may be accomplished through use of a nebulizer. Administration via the transdermal and transmucosal.

DETD . . . in an ointment for topical formulation in appropriate packaging. Also contemplated are packages for use in combination with a specific device, such as an inhaler, nasal administration device (e.g., an atomizer) or an infusion device such as a minipump or transdermal administration device.

> s inhal? (s) device
L48 20741 INHAL? (S) DEVICE

=> que l48 and osmolyie
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Some commands only work in certain files. For example, the EXPAND
command can only be used to look at the index in a file which has an
index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

=> s l48 and osmolyie
L49 0 L48 AND OSMOLYIE

=> s l48 and osmolyte
L50 42 L48 AND OSMOLYTE

=> d 1-42 ti

> d his

(FILE 'HOME' ENTERED AT 21:23:21 ON 21 SEP 2007)

FILE 'REGISTRY' ENTERED AT 21:25:27 ON 21 SEP 2007

E OSMOLYTE ECTOINE/CN

E ECTOINE/CN

E HYDROXYECTOINE/CN

L1 1 S E2

E ECTOINE/CN

L2 1 S E3

E FIROIN/CN

L3 1 S E3

E FIROIN-A/CN

L4 1 S E2

E DIGLYCEROAL PHOSPHATE/CN

E DIGLYCEROL PHOSPHATE/CN

E PHOSPHODIGLYCEROL/CN

E DIPHOSPHOGLYCERATE/CN

E CYCLIC DIPHOSPHOGLYCERATE/CN

FILE 'REGISTRY' ENTERED AT 21:33:30 ON 21 SEP 2007

FILE 'CAPLUS, USPATFULL, USPATOLD, USPAT2' ENTERED AT 21:33:46 ON 21 SEP 2007

L5 262 FILE CAPLUS

L6 45 FILE USPATFULL

L7 0 FILE USPATOLD

L8 9 FILE USPAT2

TOTAL FOR ALL FILES

L9 316 S L1 OR L2 OR L3 OR L4

L10 34184 FILE CAPLUS

L11 38848 FILE USPATFULL

L12 2748 FILE USPATOLD

L13 5917 FILE USPAT2

TOTAL FOR ALL FILES

L14 81697 S INHAL? (S) DEVICE OR NEBUL? OR INHALER

L15 1 FILE CAPLUS

L16 1 FILE USPATFULL

L17 0 FILE USPATOLD

L18 0 FILE USPAT2

TOTAL FOR ALL FILES

L19 2 S L9 AND L14

L20 83419 FILE CAPLUS

L21 82805 FILE USPATFULL

L22 6176 FILE USPATOLD

L23 12303 FILE USPAT2

TOTAL FOR ALL FILES

L24 184703 S INHAL? (S) DEVICE OR NEBUL? OR INHALER OR INHAL?

L25 1 FILE CAPLUS

L26 3 FILE USPATFULL

L27 0 FILE USPATOLD

L28 1 FILE USPAT2

TOTAL FOR ALL FILES

L29 5 S L24 AND L9

L30 2 FILE CAPLUS

L31 1 FILE USPATFULL

L32 0 FILE USPATOLD

L33 0 FILE USPAT2

TOTAL FOR ALL FILES

L34	3 S L1 AND L2 AND L3 AND L4
L35	0 FILE CAPLUS
L36	0 FILE USPATFULL
L37	0 FILE USPATOLD
L38	0 FILE USPAT2
	TOTAL FOR ALL FILES
L39	0 S D HISL9
L40	259 FILE CAPLUS
L41	1026 FILE USPATFULL
L42	65 FILE USPATOLD
L43	115 FILE USPAT2
	TOTAL FOR ALL FILES
L44	1465 S D HIS